

Interview Summary	Application No. 09/390,141	Applicant(s) SETOVICH ET AL.	
	Examiner Chih-Ching Chow	Art Unit 2192	

All participants (applicant, applicant's representative, PTO personnel):

(1) Chih-Ching Chow. (3) _____.

(2) Mr. Michael J. Bolan Reg. No. 42,339. (4) _____.

Date of Interview: 08/05, 08/08.

Type: a) ☒ Telephonic b) ☐ Video Conference
c) ☐ Personal [copy given to: 1) ☐ applicant 2) ☐ applicant's representative]

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☒ No.
If Yes, brief description: _____.

Claim(s) discussed: 1-3,39-50.

Identification of prior art discussed: None.

Agreement with respect to the claims f) ☒ was reached. g) ☐ was not reached. h) ☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Attorney agrees to cancel claims 48 and 49, since "carrier wave" is non-statutory (101), the subject matter are covered in other claims. see attachment; attorney also agrees to add the limitation of E/C compiler to claims or cancel the claims without this limitation.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN ONE MONTH FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

Chih-Ching Chow
Examiner's signature, if required

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

BINGHAM McCUTCHEN

Facsimile

DATE: August 5, 2005

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	NAME	FAX	PHONE
TO:	Examiner Chih Ching Chow USPTO, Art Unit 2122	571-273-3693	571-272-3693

FROM:	Michael J. Bolan michael.bolan@bingham.com	(714) 830-0700	(714) 830-0606
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PAGES: (INCLUDING THIS COVER PAGE): 1

RE: US Serial Appln. No. 09/390,141
Filed: September 3, 1999
Our Ref.: CA7045782001
In re the Application of: Ellen M. Sentovich et al.
For: METHOD AND SYSTEM FOR SPLIT-COMPILING A HYBRID
LANGUAGE PROGRAM

MESSAGE:

PLEASE DELIVER TO EXAMINER CHIH CHING CHOW IMMEDIATELY.

Dear Examiner Chih Ching Chow:

Per our previous telephone conference, please cancel claims 48 and 49 in the above subject application.

If you have any questions, please do not hesitate to contact me.

Sincerely,



Michael J. Bolan
Reg. No. 42,339

For transmission problems, please call (714) 830-0600

The information in this transmittal (including attachments, if any) is privileged and confidential and is intended only for the recipient(s) listed above. If you are neither the intended recipient(s) nor a person responsible for the delivery of this transmittal to the intended recipient(s), you are hereby notified that any unauthorized reading, distribution, copying or disclosure of this transmittal is prohibited. If you have received this transmittal in error, please notify us immediately at (same telephone number as in first paragraph - will duplicate) and return the transmittal to the sender. Thank you.

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OC/212982.1

PROPOSED CLAIM AMENDMENTS FOR APPLICATION 09/390,141

Cancel Claims 1-3

4 4. (Currently Amended) In a combined E/C (Esterel-C) language compiler product for a computer system, said combined E/C language compiler comprising an Esterel computer language, an Esterel compiler, and a C compiler, a method of compiling of an E/C source code using said combined E/C compiler product, said method comprising the steps of:

- (a) parsing a plurality of statements of said E/C source code;
- (b) splitting said E/C source code into a plurality of sets of code statements, each said set comprising a plurality of code statements compilable by one said compiler; and
- (c) compiling each said set of code statements.

4 5. (Currently amended) In a combined E/C (Esterel-C) language compiler product for a computer system, said combined E/C language compiler comprising an Esterel computer language, an Esterel compiler, and a C compiler, a method of compiling of an E/C source code using said combined E/C compiler product, said method comprising the steps of:

- (a) parsing said plurality of code statements of said E/C source code into a combined representation;
- 7 (b) splitting said combined E/C code representation into a plurality of sets of E/C code statements;
- (c) using at least two compilers to compile said plurality of sets of E/C code statements; wherein each said E/C set is compilable by one said compiler; and
- (d) merging each said set of compiled E/C statements into a single executable program.

6. (Currently Amended) The method of claim 5, wherein said step (a) of parsing said plurality of E/C code statements into said combined E/C code representation further includes the

step of:

using at least two computer languages, said Esterel computer language and said C computer language, to write said plurality of E/C source code statements.

1 39. (Currently Amended) In a combined E/C (Esterel-C) language compiler product for a
2 computer system, a method of compiling ~~a hybrid~~ an E/C source code comprising a plurality of
3 code statements using said combined E/C language compiler product, said method comprising
the steps of:

5 (a) parsing ~~a plurality of statements of said hybrid~~ said plurality of E/C source code
6 statements into a combined representation;

7 (b) splitting said ~~hybrid source code~~ combined representation into a plurality of sets of
8 code statements, each said set comprising a plurality of code statements ~~compatible by one said~~
9 ~~compiler~~;

(c) compiling each said set of code statements; and

(d) merging each said compiled code statement into a single executable program.

1 40. (Currently Amended) In a combined E/C (Esterel-C) language compiler product for a
2 computer system, a method of compiling ~~a hybrid~~ an E/C source code comprising a plurality of
3 code statements using said combined E/C language compiler product, said method comprising
the steps of:

5 (a) parsing said plurality of E/C source code statements ~~of said hybrid source code~~ into a
combined representation;

7 (b) splitting said combined representation into a plurality of sets of ~~hybrid~~ code
statements;

9 (c) using at least two compilers to compile said plurality of sets of ~~hybrid~~ code

statements, wherein each said set is compilable by one said compiler, and

(d) merging each said set of compiled statements into a single executable program.

41. (Currently Amended) The method of claim 40, wherein said step (a) of parsing said plurality of ~~hybrid~~ E/C source code statements further includes the step of:

using at least two computer languages to write said plurality of ~~hybrid~~ E/C source code statements.

42. ^{Currently Amended} ~~(Original)~~ The method of claim 40, wherein said step (b) of splitting said ~~hybrid code~~ combined representation into said plurality of sets of code statements further comprises the steps of:

splitting said ~~hybrid code~~ combined representation at a specification level into two different trial codes, wherein said first trial code includes a first plurality of code modules including a first plurality of internal module computations, a first plurality of inter-module communications, and a first level of reactivity, and wherein said second trial code includes a second plurality of code modules including a second plurality of internal module computations, a second plurality of inter-module communications, and a second level of reactivity;

comparing said first trial code with said second trial code;

assessing the difference in compilation time and the difference in execution time between said two trial codes; and

selecting an optimum trial code.

43. (Currently amended) The method of claim 40, wherein said step (b) of splitting said ~~hybrid code~~ combined representation further includes the step of:

splitting said ~~hybrid code~~ combined representation at a compilation level into a plurality of reactive code statements and a plurality of non-reactive code statements.

Currently amended

1 44. (~~Original~~) The method of claim 40, wherein said step (b) of splitting said ~~hybrid code~~
2 combined representation further comprises the step of:

3 splitting said ~~hybrid code~~ combined representation based on an implementation method.

1 45. (Currently amended) A combined E/C (Esterel-C) language compiler product for a
computer system, comprising:

(a) a merged syntax defining a plurality of acceptable code statements;

4 (b) a splitter configured to split said ~~combined code~~ merged syntax into a plurality of sets
of code statements;

(c) a compiler configured to compile each said set of code statements; and

(d) a post-compiler level merger configured to merge each said compiled code statement
into a single executable program.

1 46. (Currently amended) A combined ~~hybrid~~ E/C (Esterel-C) language product for a
computer system, comprising:

3 (a) a syntax of a ~~hybrid~~ E/C language defining a plurality of acceptable code
statements;

5 (b) a splitter configured to split said ~~hybrid~~ E/C code into a plurality of sets of code
statements, each said set comprising a plurality of code statements, each said code statement
compilable independently;

(c) a compiler configured to compile each said set of code statements;

(d) a checker configured to check whether each said compiled code statement satisfies the
1 0 semantics of said ~~hybrid~~ E/C language; and

(e) a post-compiler level merger configured to merge each said compiled code statement
into a single executable program.

47. (Currently amended) A computer-usable apparatus useful in association with a
combined E/C (Esterel-C) language compiler, said combined E/C language compiler configured
to compile a plurality of code statements, said computer-usable apparatus including computer-
readable code instructions configured to cause said combined E/C language compiler to execute
the steps of:

- (a) defining a plurality of acceptable statements of a combined E/C code;
- (b) splitting said combined E/C code into a plurality of sets of code statements, each said
set comprising a plurality of code statements compilable independently;
- (c) compiling each said set of code statements; and
- (d) merging each said compiled code statement into a single executable program.

50. (Currently amended) A computer-readable code embedded in a storage medium,
wherein

said computer readable code is manipulated by a combined E/C (Esterel-C) language
compiler, said combined E/C language compiler configured to compile a plurality of code
statements written using a plurality of computer languages, said combined language compiler
configured to execute the steps of:

- (a) accepting a combined E/C code comprising a plurality of code statements;
- (b) splitting said combined code into a plurality of sets of code statements, each said set
comprising a plurality of independently compilable code statements;
- (c) compiling each said set of code statements; and
- (d) merging each said compiled code statement into a single executable program.